Snowmap Error

Seiji Kato Hampton University

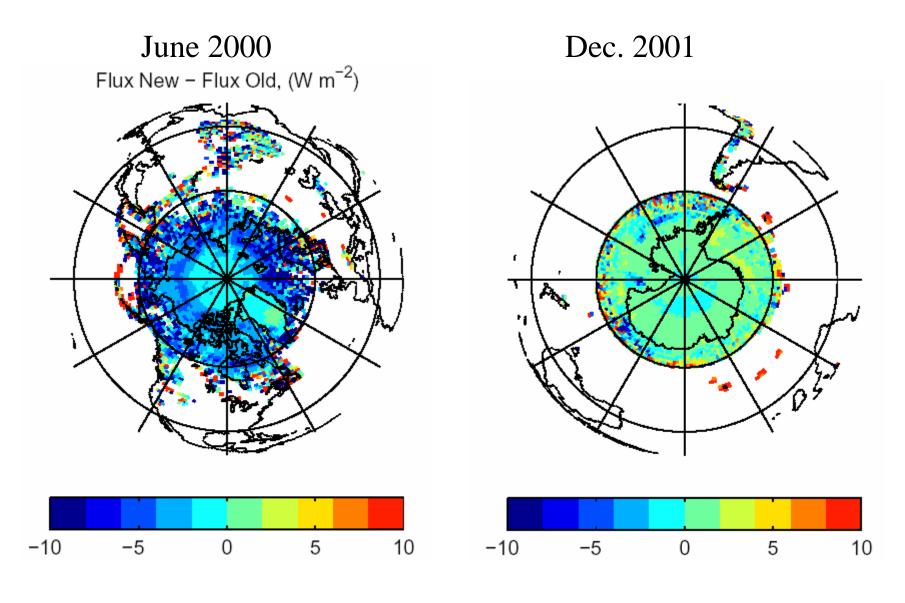
ADM Working Group Presentation

3rd CERES Science Team Meeting, May 3- 5 GFDL, Princeton, NJ

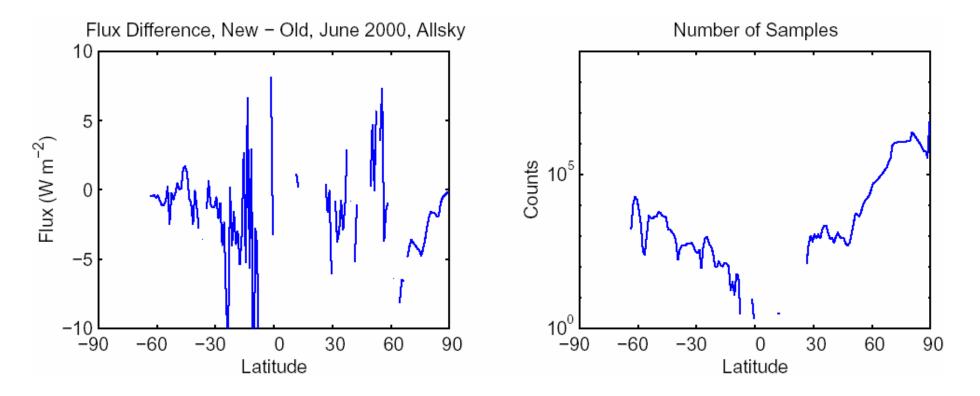
Objective

• Understand the effect of the snowmap error (index of smowmap was shifted by 1) to the iradiance in the SSF Terra Ed2 product.

All-sky Flux difference NH

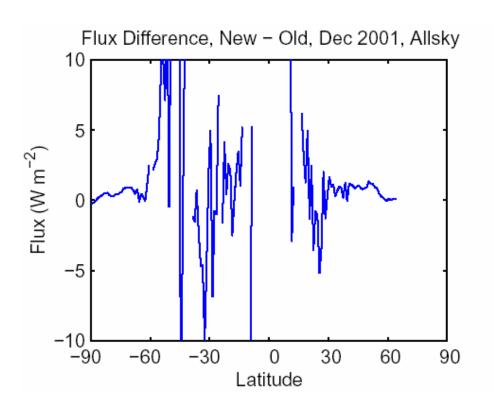


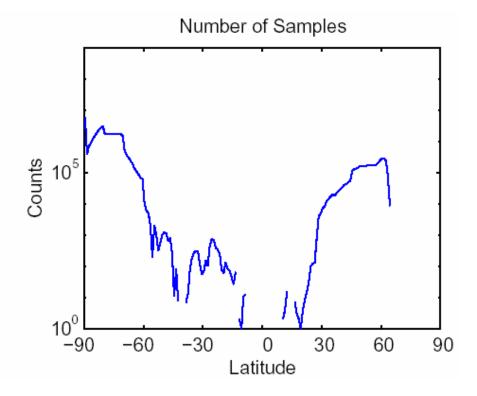
All-sky Zonal Flux Difference, June 2000



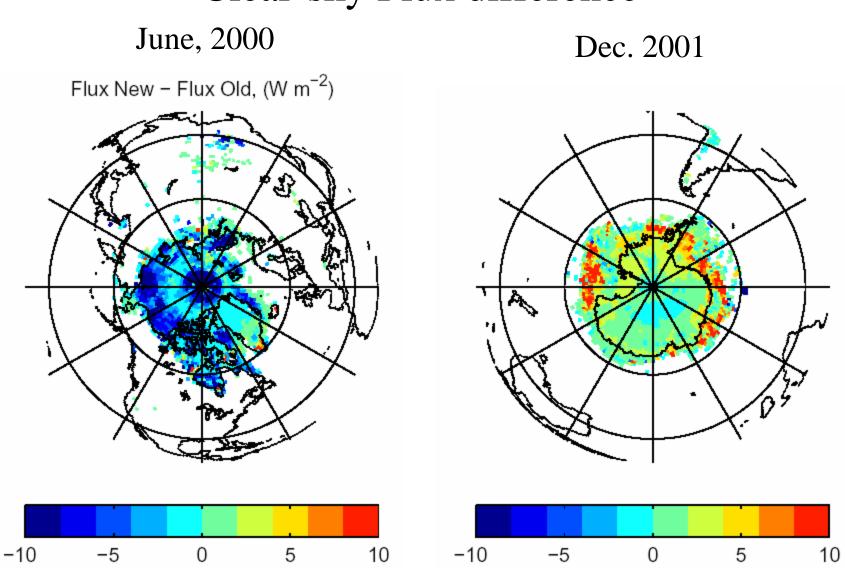
Only fluxes derived from snow/sea ice ADMs are used

All-sky Zonal flux difference, Dec. 2001

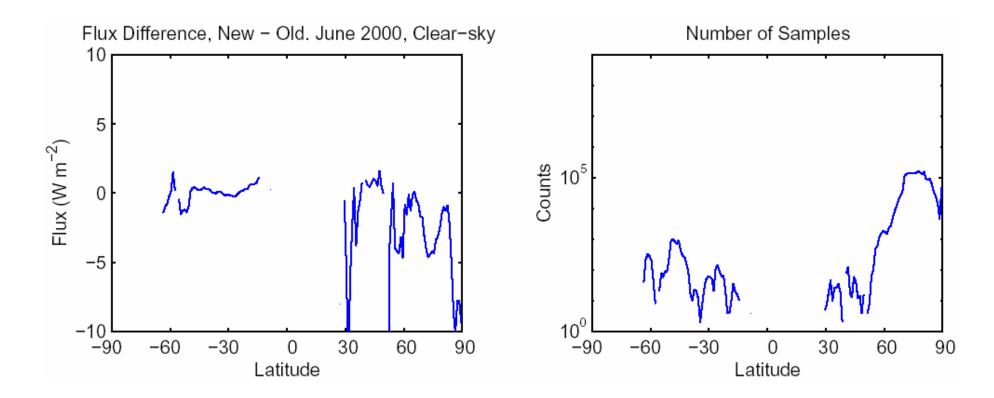




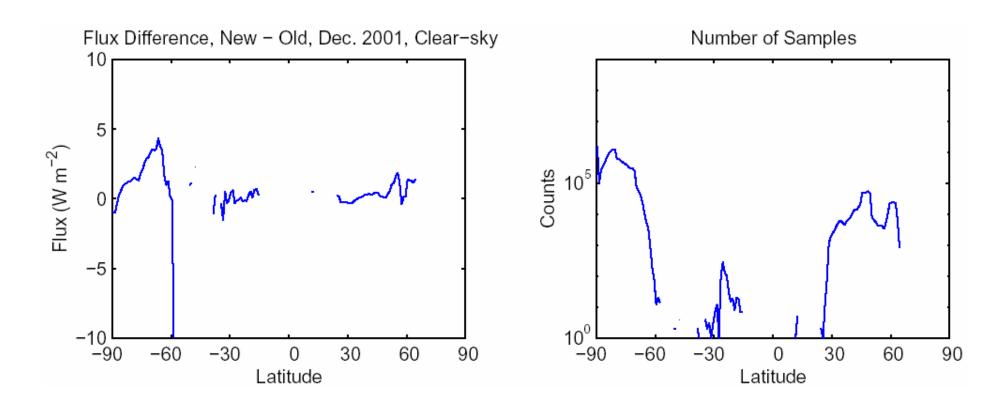
Clear-sky Flux difference



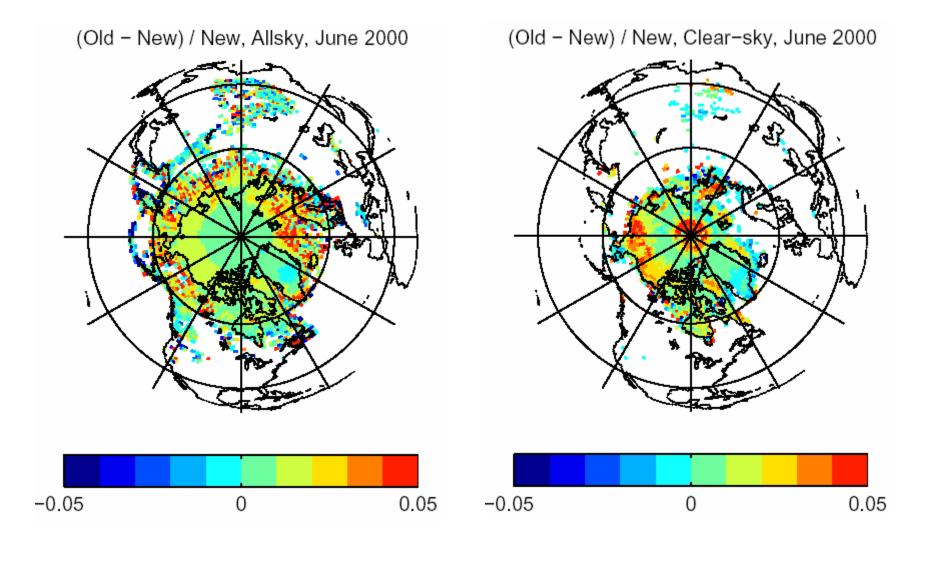
Clear-sky Zonal Flux Difference, June 2000



Clear-sky Zonal Flux Difference, Dec. 2001



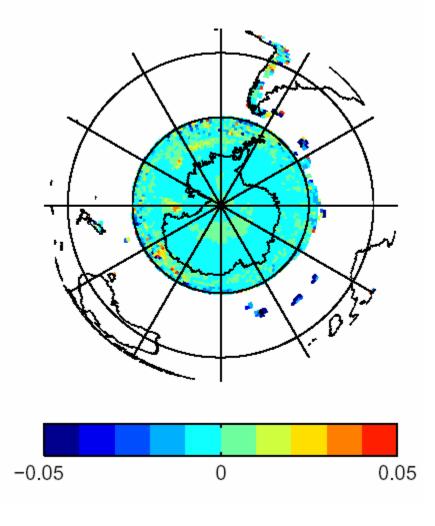
Relative Difference, NH

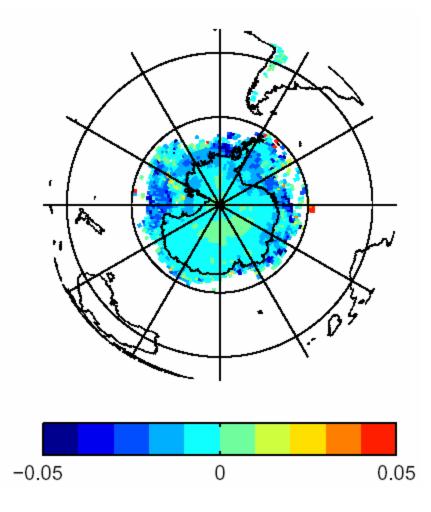


Relative Difference

(Old - New) / New, Allsky, Dec. 2001

(Old - New) / New, Clear-sky, Dec. 2001





Regional Irradiance Error Estimate

Surface and Scene Type	Mean Error (%)	RMS Error (%)
Permanent Snow, Clear-sky	0.6	2.8
Fresh snow, All-sky		
Bright Snow	0.2	4.3
Dark Snow	-0.4	3.8
Sea Ice, All-sky		
Bright Snow	0.3	2.7
Dark Snow	-1.1	5.1